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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,769	11/07/2007	George Bertram	034017R016US	7872
	7590 03/21/201 BRELL & RUSSELL	1	034017R016US 7872  EXAMINER SHEARER, DANIEL R  ART UNIT PAPER NUMBER  3754  MAIL DATE DELIVERY MODE	IINER
1130 CONNECTICUT AVENUE, N.W., SUITE 1130 WASHINGTON, DC 20036			SHEARER, DANIEL R	
WASHINGTO	N, DC 20036		034017R016US 7872  EXAMINER SHEARER, DANIEL R  ART UNIT PAPER NUMBER  3754	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/591,769	BERTRAM ET AL.	
Office Action Summary	Examiner	Art Unit	
	DANIEL R. SHEARER	3754	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC, 136(a). In no event, however, may a report will apply and will expire SIX (6) MONTI te, cause the application to become ABA	ATION.  ly be timely filed  HS from the mailing date of this communication  NDONED (35 U.S.C. § 133).	
Status			
<ul> <li>1) Responsive to communication(s) filed on <u>07 f</u></li> <li>2a) This action is <b>FINAL</b>. 2b) Thi</li> <li>3) Since this application is in condition for allowed closed in accordance with the practice under</li> </ul>	is action is non-final. ance except for formal matte	•	s is
Disposition of Claims			
4) ☑ Claim(s) <u>1-44</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☑ Claim(s) <u>1-44</u> are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed as a pplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to be e drawing(s) be held in abeyanc ction is required if the drawing(s	e. See 37 CFR 1.85(a). ) is objected to. See 37 CFR 1.12	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat*  * See the attached detailed Office action for a list	nts have been received. Its have been received in Appority documents have been reau (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application	

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-20 and 43-45, drawn to a hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member and a first and a second valve assembly extending rearwardly off of the manifold and so of the mixing module. A method of assembling a dispenser and a method of dispensing polyurethane packaging foam.

Group II, claims 21-27, drawn to a hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a drive assembly, a reciprocating member and the drive assembly comprising a ball screw transmission assembly with a ball screw pitch angle of less than 11 degrees.

Group III, claims 28-32, drawn to a hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member with the dispenser having electrical plug connection means at a rear end of said dispenser.

Group IV, claims 33 and 34, drawn to a hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member with the manifold having a pair of dispense material passageways and fittings for connection with sources of dispense material said fittings being swivel fittings.

Group V, claim 35, drawn to a hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member with the manifold having a pair of dispense material passageways and fittings for connection with sources of dispense material, said fittings having castellated free ends.

Group VI, claims 36 and 37, drawn to a hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member, an electronic trigger assembly and a finger compression member.

Group VII, claims 38-41, drawn to a hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member and elongated filter assemblies.

2. The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The closest prior art has been identified as US Patent No. 6,283,329 (D1). D1 discloses a hand held dispenser comprising a handle (fig. 1), a dispense material manifold (fig. 1), a mixing module (fig. 1,5, col. 9, line 56 to col. 10, line 13), a driver (fig. 1, col. 7, lines 53-67) and a reciprocating member (col. 10, lines 51-67).

From the comparison of the first invention (claims 1-20 and 43-45) and the disclosure of D1, the following technical feature of the first invention can be seen to make a contribution over D1 and therefore is considered to be the STF (Special Technical Feature, Rule 13.2 PCT) of the first invention:

 A first and a second valve assembly extending rearwardly off of the manifold and of the mixing module.

This STF solves the problem of improving the balancing of the hand held dispenser in the operator's hand.

From the comparison of the second invention (claims 21-27) and the disclosure of D1, the following technical feature of the second invention can be seen to make a contribution over D1 and therefore is considered to be the STF of the second invention:

- The drive assembly comprises a ball screw transmission assembly with a ball screw pitch angle of less than 11 degrees.

This STF solves the problem of decreasing the susceptibly of a failure mode called "free-wheeling" (see page 9, lines 10-21).

From the comparison of the third invention (claims 28-32) and the disclosure of D1, the following technical feature of the third invention can be seen to make a contribution over D1 and therefore is considered to be the STF of the third invention:

- The dispenser has electrical plug connection means at a rear end of said dispenser.

This STF solves the problem of allowing a quick release at a desired time for change over of a dispenser (see page 16, lines 12-23).

From the comparison of the fourth invention (claims 33 and 34) and the disclosure of D1, the following technical feature of the fours invention can be seen to make a contribution over D1 and therefore is considered to be the STF of the fourth invention:

- The manifold has a pair of dispense material passageways and fittings for connection with sources of dispense material said fittings being swivel fittings.

This STF solves the problem of decreasing material leakage (see page 20, lines 4-20).

From the comparison of the fifth invention (claim 35) and the disclosure of D1, the following technical feature of the fifth invention can be seen to make a contribution over D1 and therefore is considered to be the STF of the fifth invention:

- The manifold has a pair of dispense material passageways and fittings for connection with sources of dispense material said fittings having castellated free ends.

This STF solves the problem of improving the material flow (see page 21, line 21 to page 22, line 2).

From the comparison of the sixth invention (claims 36 and 37) and the disclosure of D1, the following technical feature of the sixth invention can be seen to make a contribution over D1 and therefore is considered to be the STF of the sixth invention:

- An electronic trigger assembly and a finger compression member.

This STF solves the problem of improving the robustness of the trigger switch (see page 11, line 15 to page 12, line 7).

From the comparison of the sevens invention (claims 38-41) and the disclosure of D1, the following technical feature of the seventh invention can be seen to make a contribution over D1 and therefore is considered to be the STF of the seventh invention:

- elongated filter assemblies.

This STF solves the problem of improving the filtering capacity of the dispenser.

The above analysis shows that the STF of the seven inventions are not the same and are not corresponding. A comparison of the objective problems related to the seven inventions, seen in the light of the description and drawings of the application, shows that they are different and that they have no corresponding technical effect.

In conclusion, the groups of claims are not linked by common or corresponding special technical features and define 7 different inventions not linked by a single general inventive concept.

The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

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Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof.

Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case.

Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL R. SHEARER whose telephone number is (571)270-7416. The examiner can normally be reached on Monday through Friday 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571)272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. R. S./ Examiner, Art Unit 3754 /Kevin P. Shaver/ Supervisory Patent Examiner, Art Unit 3754 Application/Control Number: 10/591,769

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